



labreports@kavadepot.com
(321) 802 - 4583

2510 Kirby Circle NE Suite 110, Palm Bay, FL 32905

Certificate Of Analysis

Sample Identification Information

Date of Analysis 7/16/2026
Sample S2441
Product Name Lateral Roots
Lot# VSC2606LR07

Country of Origin Vanuatu
Country of Processing USA
Manufacture Date Jul-26
Best By Date Jul-29

General Product Specifications

Product Species Piper Methysticum
Part Used Root

Common Names Kava kava, Awa, Yagona
Appearance Yellow, Brown, beige powder

Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-90% Kavalactones	11.12%	HPLC
Identification	Complies by HPLC	Conform	HPLC
Kavalactone Profile	Noble	PASS	HPLC
Mesh Size	60-30	60	Sieve
Color	Beige	Pass	Visual
Odor		Pass	Organoleptic
Taste		Pass	Organoleptic
Chemotype		423156	HPLC
K/DHM	TUDEI < 1.2 < NOBLE	4.0	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2671.914			
Methysticin	M	1	2.21	788.353	6.65%	0.91%	6
Dihydromethysticin	DHM	2	3.38	533.958	4.50%	0.94%	5
Kavain	K	3	1	7158.549	60.38%	3.73%	4
Dihydrokavain	DHK	4	3.48	1617.322	13.64%	2.93%	2
Desmethoxyyangonin	DMY	5	2.52	815.391	6.88%	1.07%	1
Yangonin	Y	6	3.12	942.414	7.95%	1.53%	3
Kavalactones			Total:	11855.987	100.00%	11.12%	423156

This report reflects Laboratory results obtained at the time of analysis using standard testing methods and calibrated equipment. While care has been taken to ensure accuracy, these results are provided for informational purposes only. The purchaser and end user are solely responsible for proper use, dosage, and handling of this. Kava Republic Inc. shall not be held liable for any adverse effects, misuse, or overconsumption resulting from its use. Independent third-party verification is recommended where necessary.

Chemist Mojib Asmani

Date 7/17/26

SAMPLE S2441
Vial 12

0.75237g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_07_16_26_15MINSTDTESTMETHOD 2026-07-16 19-52-19\012-->

SEQUENCE C:\CHEM32\1\DATA\KAVA_07_16_26_ ->

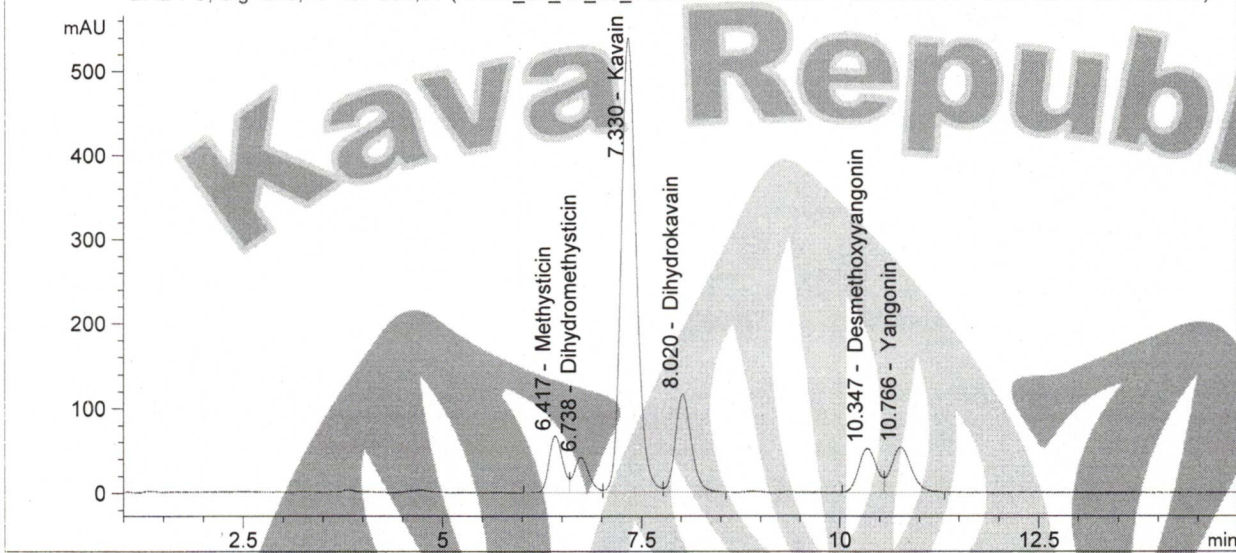
Injection date 7/17/2026

Injection time 4:30:08 AM

Acq. operator Marjan

Method C:\Chem32\1\METHODS\SLOWFLOW.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_07_16_26_15MINSTDTESTMETHOD 2026-07-16 19-52-19\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	6.417	788.353	6.65	0.001
2	Dihydromethysticin	6.738	533.958	4.50	0.001
3	Kavain	7.330	7158.549	60.38	0.001
4	Dihydrokavain	8.020	1617.322	13.64	0.003
5	Desmethoxyyangonin	10.347	815.391	6.88	0.001
6	Yangonin	10.766	942.414	7.95	0.002

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	7/16/2026	Country of Origin	Vanuatu
Sample Number	S2441	Country of Processing	USA
Product Name	Lateral Roots	Manufacture Date	Jul-26
Lot Number	VSC2606LR07	Best By Date	Jul-29

ITEM	SPECIFICATION	TEST RESULTS	METHOD
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PHYSICAL & CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	11.21%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	423156	HPLC
K/DHM	> 1.2 for Noble	4	Calculation

HEAVY METALS

		Results		
Arsenic (As)	NMT 1,000 (ppb)*	76	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	366	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	95.2	ppb	FDA EAM 4.7
Mercury (Hg)	NMT 1,000 (ppb)*	10	ppb	FDA EAM 4.7

*Heavy Metals Action Limits Based on Maximum PDE at 5% Kavalactones. Results May Exceed 1,000 ppb action limit with higher kavalactone contents.

MICROBIOLOGICAL

		Results		
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	25,000	cfu / 10 g	USP 2021
E. COLI	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
SALMONELLA	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	6,100	cfu / 10 g	
MOLD		150	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	6,250	cfu / 10 g	

cfu/g = Colony Forming Units Per Gram

NMT = No More Than

PDE = Permitted Daily Exposure

PPB = Parts Per Billion

Analysis Performed by a Third-Party Laboratory

We are dedicated to offer the best quality of botanical products on the market. We test and stand behind our products.

Disclaimer * The test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing methods.

These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an in-house quality control department or obtain an additional independent third-party lab to verify that this material meets specifications.

Kava Republic, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Completed By:

Tracy Sahli

Title:

Manager

Date:

07/17/2026